

Patent Claims

1. An electrically heatable insole, comprising:
5 at least one sole basic body;
 a cover layer;
 at least one heating electrode;
 at least one rechargeable battery electrically
connected to the heating electrode; and
10 a control circuit controlling a heating process
and recharging the battery,
 wherein the heating electrode, the battery and
the control circuit are disposed at least one of (i)
in the sole basic body and (ii) between the sole ba-
15 sic body and the cover layer, and
 wherein the control circuit includes (i) a re-
mote control device switching the heating process on
and off and (ii) a protective circuit disconnecting
the battery in an event of a defect.
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2. The insole according to claim 1, wherein the
battery is a lithium accumulator.
3. The insole according to claim 1, wherein the
25 battery is disposed in at least one of (i) a heel re-
gion and (ii) a foot arch region of the insole.
4. The insole according to claim 1, wherein the
heating electrode includes Minirelf resistors.
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5. The insole according to claim 1, wherein the
control circuit continuously regulates a strength of

the heating process.

5 6. The insole according to claim 1, wherein the remote control device has an external operating part and an incorporated control part.

7. The insole according to claim 1, wherein the remote control device has a contact-free switch.

10 8. The insole according to claim 1, wherein the remote control device has a transmitting and receiving unit which wirelessly transmits information.

15 9. The insole according to claim 6, wherein the operating part includes display elements for at least one of (i) a functional display and (ii) a temperature display.

20 10. The insole according to claim 6, wherein the operating part has a transmitter and an actuation element which activates the transmitter, the transmitter, in an activated state, transmitting a wireless switch-on signal to the incorporated control part.

25 11. The insole according to claim 8, wherein the operating part has a receiver and the remote control device is a bi-directional remote control.

30 12. The insole according to claim 6, wherein the operating part includes a first switching element of a contact-free switch which cooperates with a second switching element disposed in the incorporated con-

trol part.

13. The insole according to claim 7, wherein the
contact-free switch is configured as one of a reed
5 switch, a magnetic switch and a proximity switch.

14. The insole according to claim 1, wherein a plug
contact connected to the control circuit for connec-
tion of a network device is incorporated in the sole
10 basic body.